FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL						
OMB Number:	3235-0287					
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nours per response	e 0.5					

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. *See* Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

(Print or Ty	pe Kesponse	S)														
1. Name and Address of Reporting Person* Wang David C			2. Issuer Name and Ticker or Trading Symbol KLA TENCOR CORP [KLAC]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner						
(Last) (First) (Middle) C/O KLA-TENCOR CORPORATION, ONE TECHNOLOGY DRIVE				3. Date of Earliest Transaction (Month/Day/Year) 11/03/2010								Office	r (give title belo	ow)	Other (specify l	pelow)
(Street)				4. If Amendment, Date Original Filed(Month/Day/Year)						6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person						
MILPITA	AS, CA 95	035												one responding		
(City)	(State)	(Zip)		Т	able I	- Non	-Deriv	ative S	ecurities .	Acqui	ired, Dispo	osed of, or I	Beneficially	Owned	
1.Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Year)		Execution Date, if		f Coo	(Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)			Ownership Form: I Direct (D)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
						C	Code	V	Amoun	(A) or (D)	Price	rice		(I) (Instr. 4)		
Common Stock Un	Stock - R	estricted	11/03/2010				A		2,772 (<u>2)</u>	A	\$ 0	5,920			D	
Common	Stock											8,800			D	
		•	Table II - I				t cquire	contai the for d, Disp	ned in rm dis oosed o	this for plays a c	m are currer	not requesting ntly valid		ormation spond unle trol numbe	ss	1474 (9-02)
		I .	,	2.g., puts	s, calls, w					ble secur	T			l .	- 1	-
Security	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Y			de	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		Amo Undo Secu	erlying urities r. 3 and Security (Instr. 5)		9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Owners Form of Derivati Security Direct (or Indire	Beneficia Ownersh (Instr. 4)	
				C	ode V	(A)		Date Exerci		Expiration Date	Title	Amount or Number of Shares				

Reporting Owners

	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
Wang David C C/O KLA-TENCOR CORPORATION ONE TECHNOLOGY DRIVE MILPITAS, CA 95035	X					

Signatures

Brian M. Martin as Attorney-in-Fact for David C. Wang	11/03/2010
-*Signature of Reporting Person	Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Each restricted stock unit represents a contingent right to receive one share of KLA-Tencor common stock.
- (2) The restricted stock units will fully vest one year from date of grant and will be deliverable on such date.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.